Load Banks

LB Series

LBR I LBP I LBS | LBT

Switching Life to Infinity

aktif ELEKTROTEKNİK

Load Banks
LB Series

Aktif Load Banks are produced according to the following customer demands, in performance tests of electrical machines and as dummy loads to ensure safe operation of generators.

- AC / DC Electrical characteristics
- R, L, C Load characteristics
- Sensitive stage precision
- Manual / HMI / Automatic control
- Indoor / Outdoor installation alternatives
- Rack mounted / Portable / Stationary / Semitrailer alternatives

Application Areas

- Generator Manufacturing and Services
- UPS Manufacturing and Services
- Dummy Loads for Gensets
- Power and Thermal Simulation of Data Centers
- Alternator Tests of Military Vehicles
- Battery Discharge Tests
- Invertor Performance Tests
- Manufacturing of EV Charging Stations

Electrical Specifications

Load Banks can be manufactured for AC LV/HV or DC operating voltages; based on following characteristics.

- Resistive (kW - Cos ϕ:1)
- Inductive / Capacitive (kVAr)
- Resistive + Inductive (kVA - Cos ϕ as requested)
- Resistive + Inductive + Capacitive (kVA - Cos ϕ: as requested)
- AC (50 / 60 / 400 Hz) or DC working voltage
- 1 kW / kVAr / kVA step precision at AC as according to needs
- 1 A step precision at DC as according to needs
- 3 kV, 50 / 60 Hz, 1 min Insulation level for the power circuit
- 2 kV, 50 / 60 Hz, 1 min Insulation level for the control circuit
- Special designs for different frequency and Cos ϕ values
- Single or three phase fans as according to needs

Standards

- IEC 60664-1
- IEC 60529
- IEC 60071-1

LB - Rack Mounted Load Banks

LB - Portable Load Banks

LB - Stationary Load Banks

LB - Trailer Mounted / Mobile Load Banks

Physical Properties

- Load Banks can be manufactured in different protection levels.
  - IP20 for indoor use
  - IP20 for outdoor use under shelter
  - IP23 for outdoor use on open area or different
- Load banks are manufactured portable up to 200 kW
- Over than 200 kW load banks are usually stationary.
- Load banks can be installed on a trailer and transported by a vehicle on demand.
- There are two types of load banks according to cooling direction.
  - Horizontal air flow
  - Vertical air flow

Protections

The following protection measures can be taken in load banks and switching is allowed only when there is no safety issue.

- Over current
- Over temperature
- Over voltage and low voltage
- Contact sticking
- Fan blowing error and more

Load Specifications

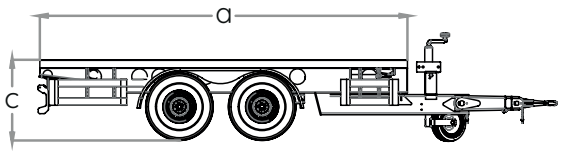
- The resistor material for resistive loads is stainless steel wire which has low temperature coefficient.
- Resistive load resistors provide a large cooling surface for forced cooling.
- Inductive loads are manufactured with aluminium or copper conductor, low losses, and iron core.

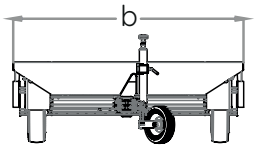
Load Banks Control Types & Features						
	N0	N1	N2	N3	N4	N5
Fans	✓	✓	✓	✓	✓	✓
Temperature Sensor	✓	✓	✓	✓	✓	✓
Air Flow Sensor	✓	✓	✓	✓	✓	✓
Lamps & Buttons	-	✓	✓	o	o	o
Analyzer	-	-	-	✓	✓	✓
HMI	-	-	-	✓	✓	✓
Logic Controller	-	-	-	✓	✓	✓
Software	-	-	-	-	✓	o
Record Excel File	-	-	-	-	✓	o
Automatic Control	-	-	-	-	-	✓

✓ : Standard o : Optional - : Not Available

Trailer Specifications

Type	Dimensions			Max. Gross Weight	Class	Axles Type	Axles Number	Drawbar Type
	a [mm]	b [mm]	c [mm]	[kg]				
Tr-1	2000	1500	700	1500	O2	Torsion	1	Constant
Tr-2	3500	2000	700	3500	O2	Torsion	2	Constant
Tr-3	3500	2000	750	5600	O3	Torsion	2	Adjustable
Tr-4	4000	2500	750	5600	O3	Torsion	2	Adjustable
Tr-5	7000	2500	1200	15000	O3	Air Suspended	2	Swivel





Doc. Nr: LB-20260107/En Owing to periodical improvements of our products, the supplied products may differ in some details from the data stated in the prospectus material.
Published by Aktif Data, subject to alteration without notice. Design & Creation: Aktif / Photos: Aktif - Stock.xchng & Shutterstock, Published Date: 07.01.2026

aktif
ELEKTROTEKNİK

Headquarters

Bayraktar Bul. Şehit Sok. No: 5
34775 Ümraniye, İstanbul, TR
Phone : +90 (216) 314 93 20
Fax : +90 (216) 314 93 60
www.aktif.net - info@aktif.net

Factory

Akşemsettin Mah. Çatalca Sk. No: 113 06930
Sincan, Ankara, TR
Phone : +90 (312) 269 46 02
Fax : +90 (312) 269 45 01
www.aktif.net - info@aktif.net

Germany Office

Bahnhofstrasse 82-86
35390 Giessen, Germany
Phone : +49 176 60940534
www.aktif.net
info.de@aktif.net